

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

01/27/2011

Migdalia Nalls  
Assistant District Attorney, Suffolk County

Dear ADA Nalls,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan and Kate Corbett
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

I, Annie Dookhan, was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Annie Khan'.

Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)

**DRUG RECEIPT**

CC #

BOOK #

29

PAGE #

28

DESTRUCTION #

District/Unit

DISTRICT E13/04 DCU

Name &amp; Rank of Arresting Officer

HARBER

ID#

11129

DEFENDANT'S NAME

ADDRESS

CITY

STATE

JAMAICA PLAIN

MA

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITYGROSS  
WEIGHT

LAB USE ONLY

ANALYSIS  
NUMBER

HEROIN

3 PAPER FOLDS

2.34g

HEROIN

1 P/B

1.82g

MARIJUANA

1 P/B

1.94g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

PORTER  
ECU

ID#

10740

Received by

Date

9-2-10

ECU Control #

## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.

\*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals.

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Kate A. Corbett

### Education

**Bachelor of Science Degree, CHEMISTRY May 2003**

**MERRIMACK COLLEGE**

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

---

### Employment

**Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

**Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005

**Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

**Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Roseanne Atkins-Tyler  
Def: [REDACTED]

Date Analyzed: 11/22/10

Amount:  
No. Cont: 3 Cont: pb p p  
Date Rec'd: 09/02/2010  
Gross Wt.: 2.34

Subst: SUB

No. Analyzed: 1  
Net Weight: 0.07

# Tests: 4 ASD  
2 CAC

Prelim: Heroin

Findings: Heroin

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Roseanne Atkins-Tyler  
Def: [REDACTED]

Date Analyzed: 11/22/10

Amount:  
No. Cont: 1 Cont: pb  
Date Rec'd: 09/02/2010  
Gross Wt.: 1.82

Subst: SUB

No. Analyzed:  
Net Weight: 0.25

# Tests: 4 ASD  
2 CAC

Prelim: Heroin

Findings: Heroin

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Roseanne Atkins-Tyler  
Def: [REDACTED]

Date Analyzed: 11-17-10

Amount:  
No. Cont: 1 Cont: pb  
Date Rec'd: 09/02/2010  
Gross Wt.: 1.96

Subst: VM

No. Analyzed:  
Net Weight:

# Tests: 3 ASD  
mud mud mud  
Dug

Prelim:

Findings: marijuana

GC/M 8A  
D111910.5

GC/M 8A  
D111916.5

gross wt 1 lb = 0.4

# DRUG POWDER ANALYSIS FORM

SAMPLE #



AGENCY

Boston

ANALYST

ADD

No. of samples tested: \_\_\_\_\_

Evidence Wt. \_\_\_\_\_

## PHYSICAL DESCRIPTION:

Beige powdered substance  
in 3 PP

Gross Wt ( 3 ): 0.8113

Gross Wt ( 1 ): 0.2737

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.0702

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (+)

Marquis +

Froehde's +

Mecke's +

### Microcrystalline Tests

Gold  
Chloride \_\_\_\_\_

TLTA ( ) \_\_\_\_\_

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 11-16-10

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR KAC

DATE 11-22-10

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ASD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

Beige powdered substance  
in 1 PB

Gross Wt ( ): 0.2947

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 0.2545

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( + )           

Marquis +           

Froehde's +           

Mecke's +           

### Microcrystalline Tests

Gold  
Chloride           

TLTA ( )           

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 11-16-10

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR KDC

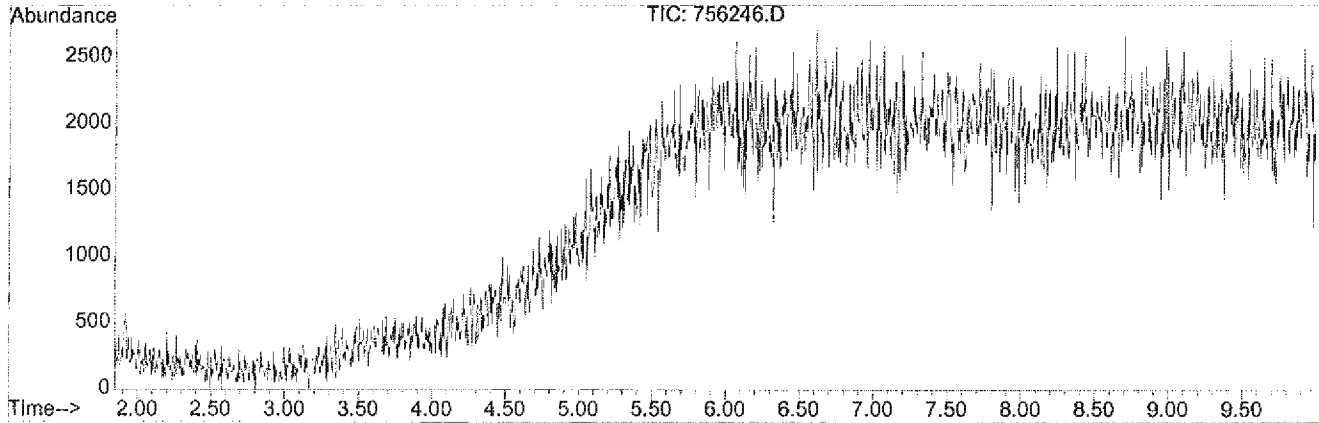
DATE 11-22-10



✓KAC  
1/25/11

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756246.D  
Operator : ASD/KAC  
Date Acquired : 19 Nov 2010 23:02  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

\*\*\*NO INTEGRATED PEAKS\*\*\*

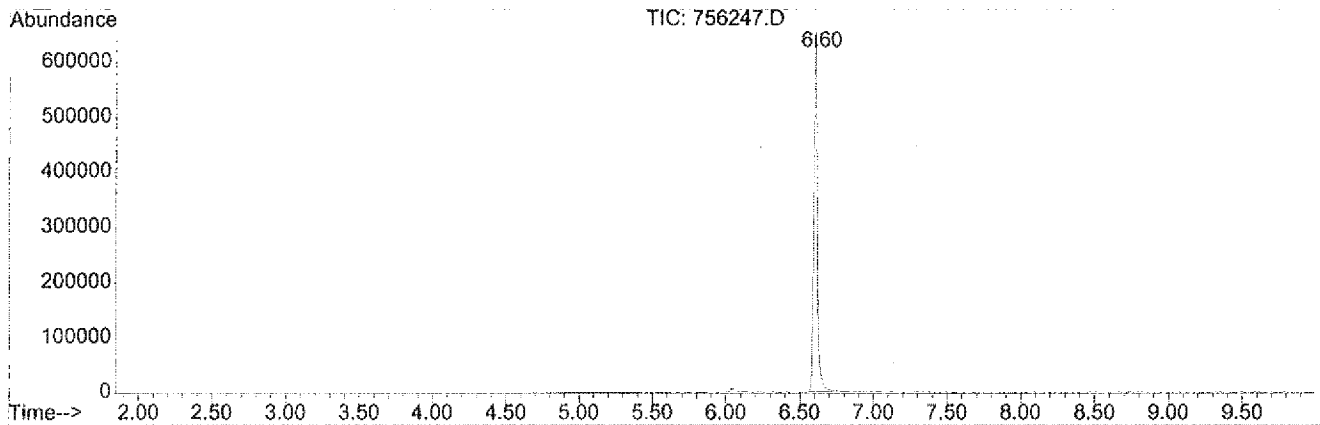
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756247.D  
Operator : ASD/KAC  
Date Acquired : 19 Nov 2010 23:15  
Sample Name : HEROIN STD  
Submitted by : ASD  
Vial Number : 47  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
6.604	1081314	100.00	100.00

---

# Area Percent / Library Search Report

**Information from Data File:**

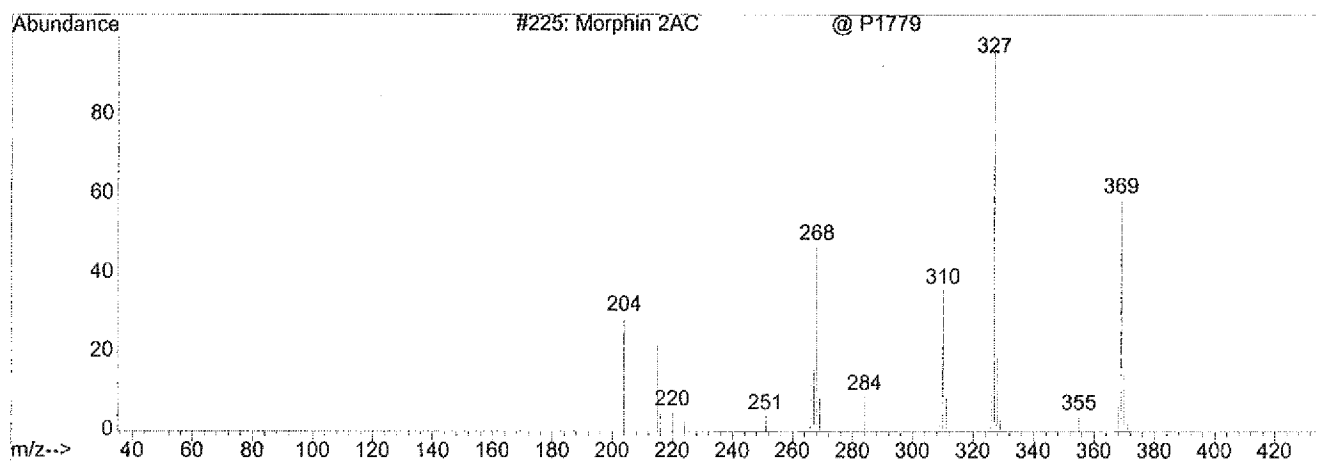
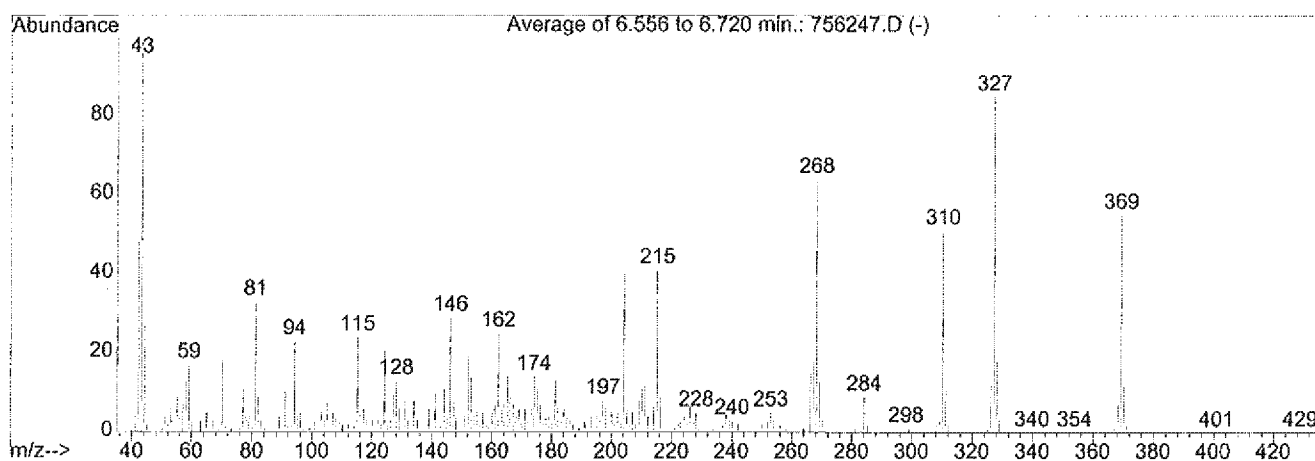
```

File Name       : F:\Q4-2010\SYSTEM4\11_19_10\756247.D
Operator        : ASD/KAC
Date Acquired   : 19 Nov 2010   23:15
Sample Name     : HEROIN STD
Submitted by    : ASD
Vial Number     : 47
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L        Minimum Quality:  0
  
```

PK#	RT	Library/ID	CAS#	Qual
1	6.60	C:\DATABASE\PMW_TOX2.L		
		Morphin 2AC	@ 000561-27-3	93
		Heroin-M (6-acetyl-morphine)	059833-14-6	87
		Naloxone AC	000000-00-0	43



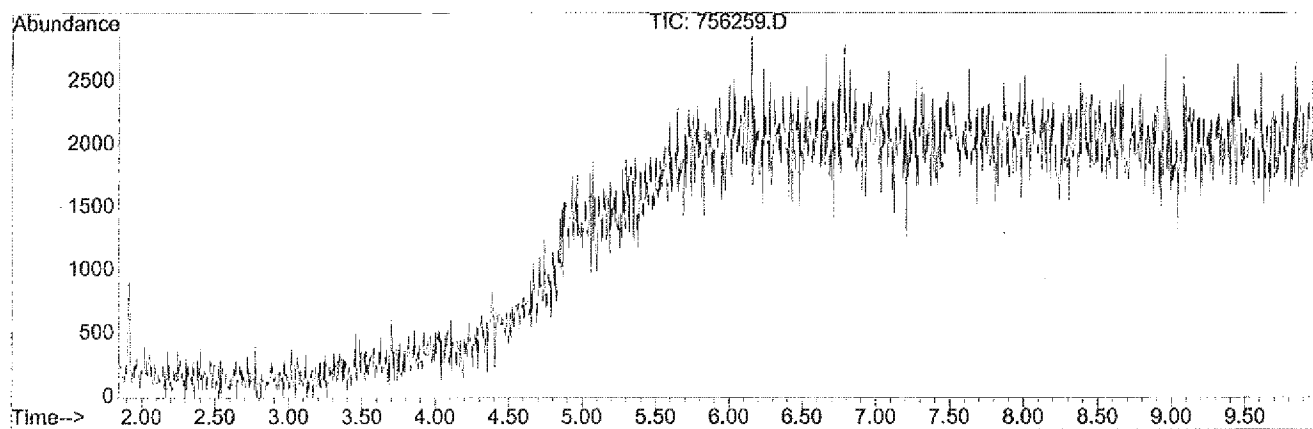
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756259.D  
Operator : ASD/KAC  
Date Acquired : 20 Nov 2010 1:58  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

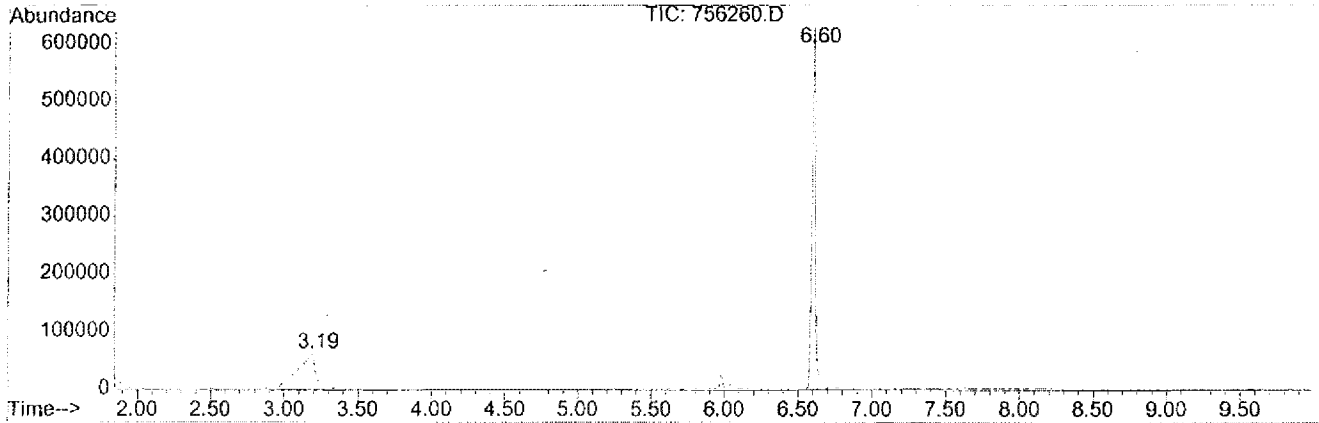
---

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756260.D  
 Operator : ASD/KAC  
 Date Acquired : 20 Nov 2010 2:11  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 60  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.192	509658	32.65	48.47
6.603	1051400	67.35	100.00

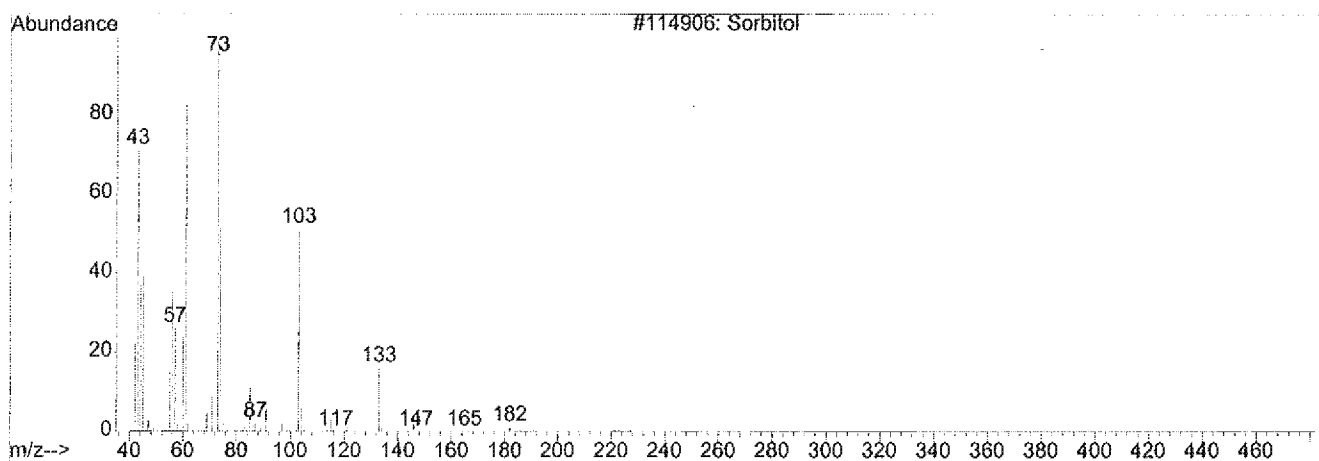
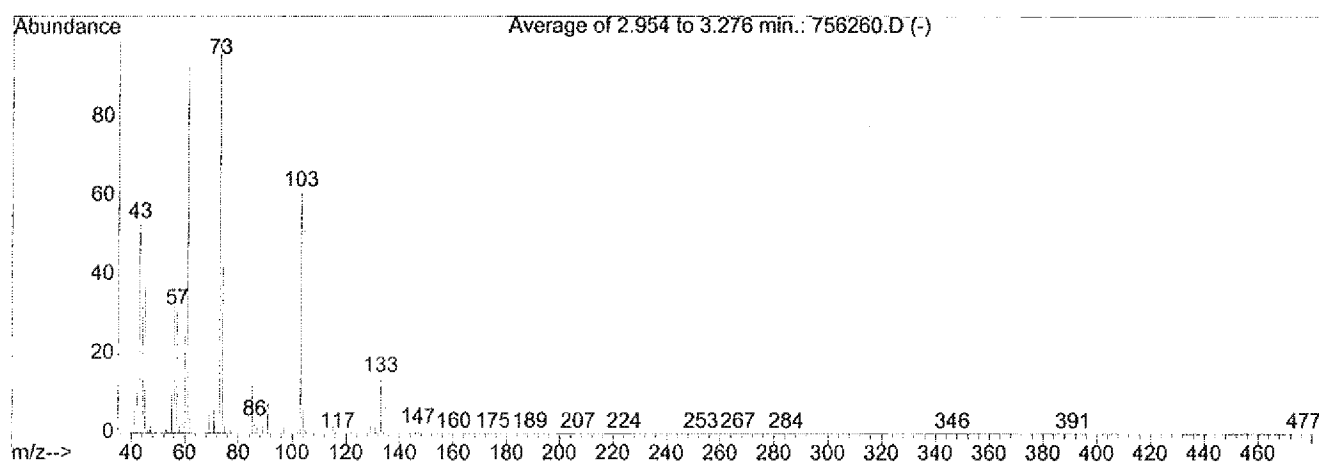
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756260.D  
 Operator : ASD/KAC  
 Date Acquired : 20 Nov 2010 2:11  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 60  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L Minimum Quality: 0

PK#	RT	Library/ID	CAS#	Qual
1	3.19	C:\DATABASE\NIST98.L		
		Sorbitol	000050-70-4	91
		Sorbitol	000050-70-4	87
		Sorbitol	000050-70-4	87



# Area Percent / Library Search Report

**Information from Data File:**

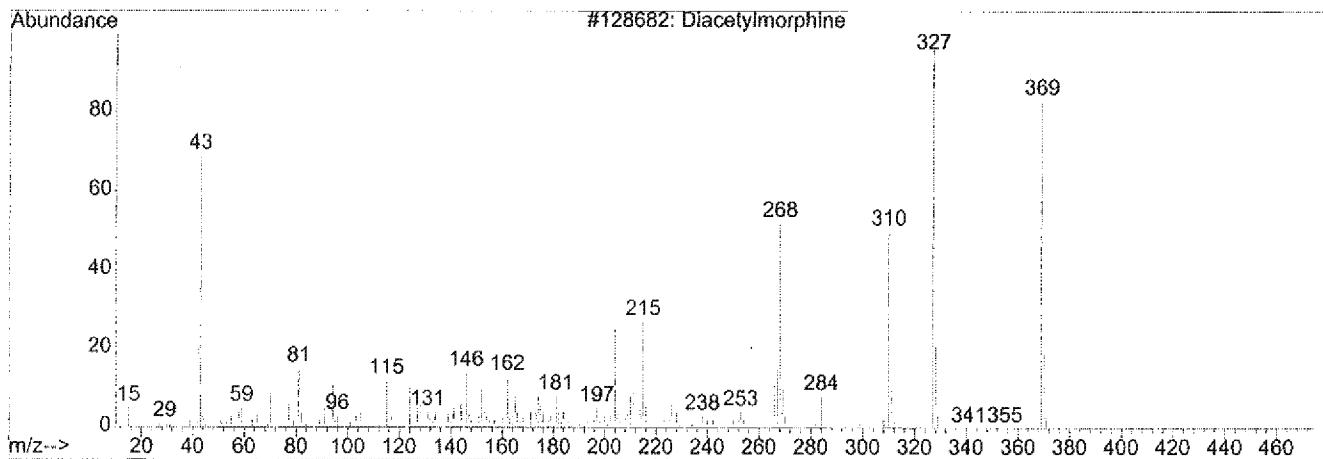
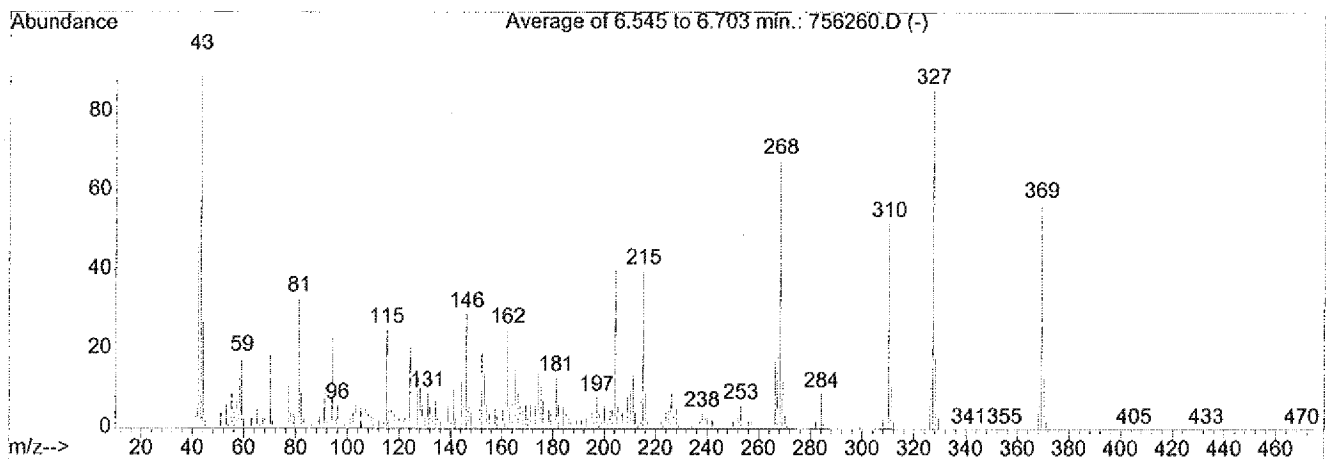
```

File Name       : F:\Q4-2010\SYSTEM4\11_19_10\756260.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010   2:11
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 60
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\PMW_TOX2.L   Minimum Quality: 90
                  C:\DATABASE\NIST98.L     Minimum Quality:  0
  
```

PK#	RT	Library/ID	CAS#	Qual
2	6.60	C:\DATABASE\NIST98.L		
		Diacetylmorphine	000561-27-3	99
		Diacetylmorphine	000561-27-3	99
		Diacetylmorphine	000561-27-3	99



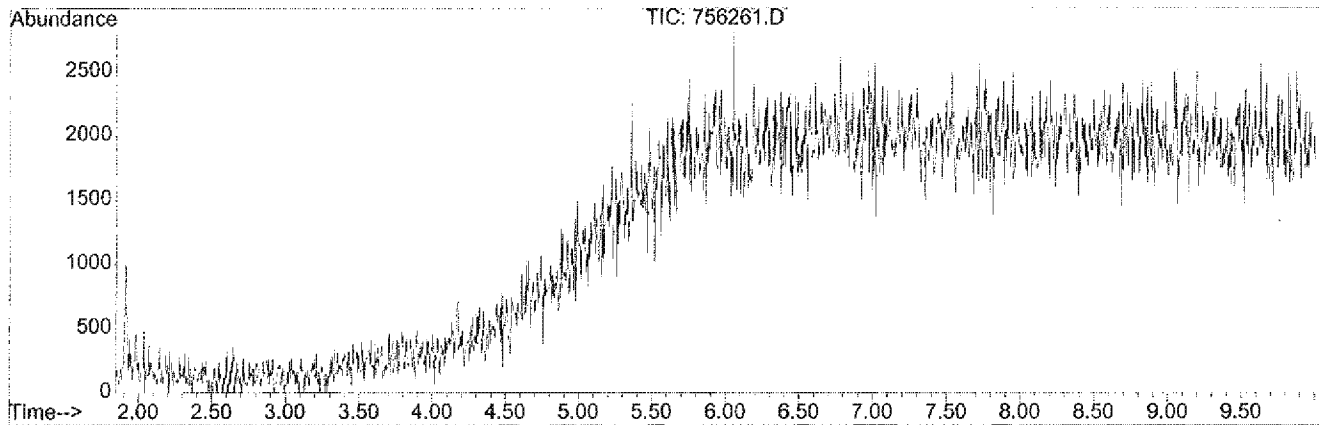
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756261.D  
Operator : ASD/KAC  
Date Acquired : 20 Nov 2010 2:25  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

---

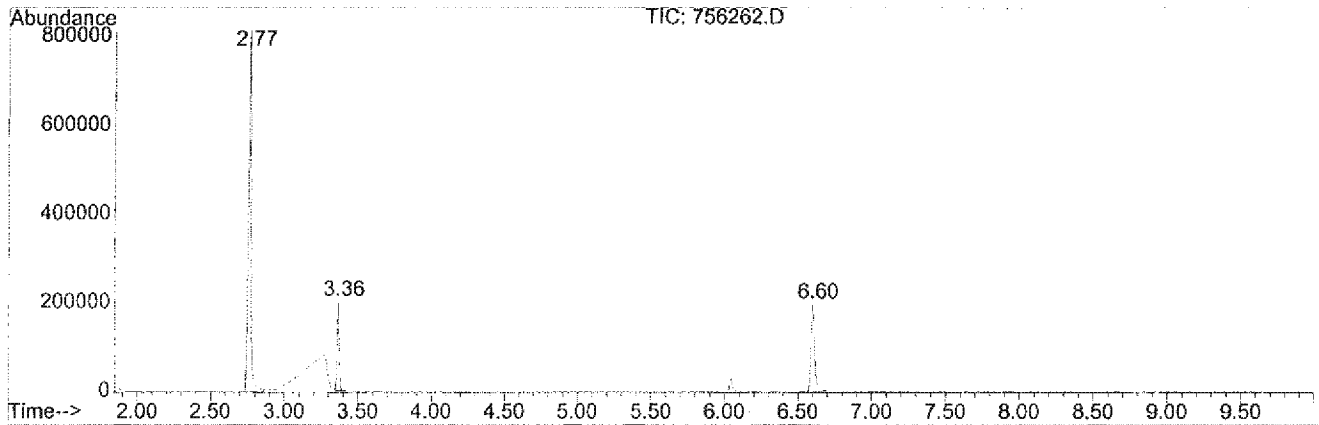
\*\*\*NO INTEGRATED PEAKS\*\*\*



# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756262.D  
 Operator : ASD/KAC  
 Date Acquired : 20 Nov 2010 2:38  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 62  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.766	1029701	66.42	100.00
3.364	187544	12.10	18.21
6.595	332987	21.48	32.34

# Area Percent / Library Search Report

**Information from Data File:**

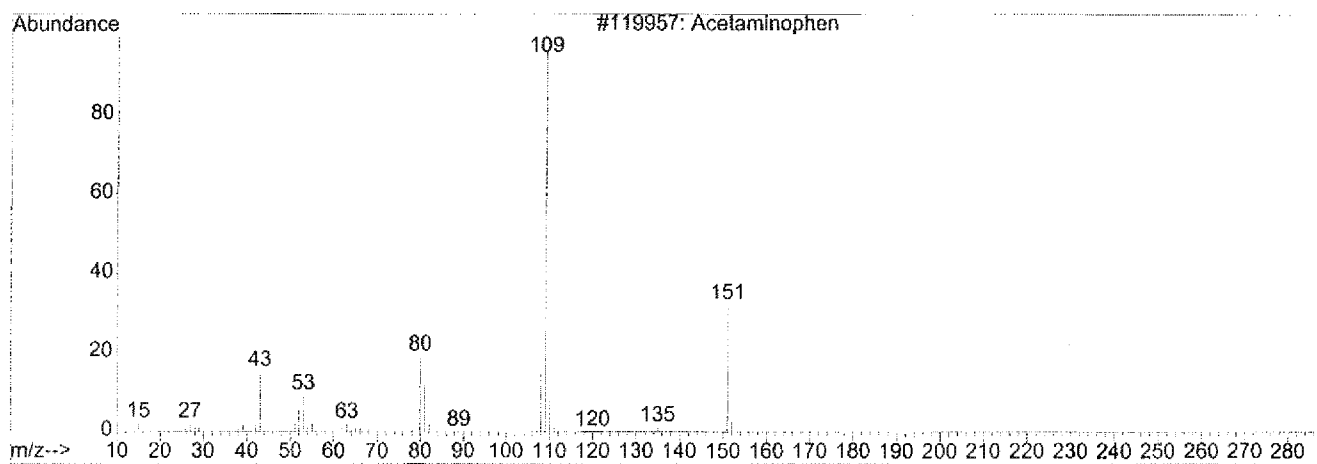
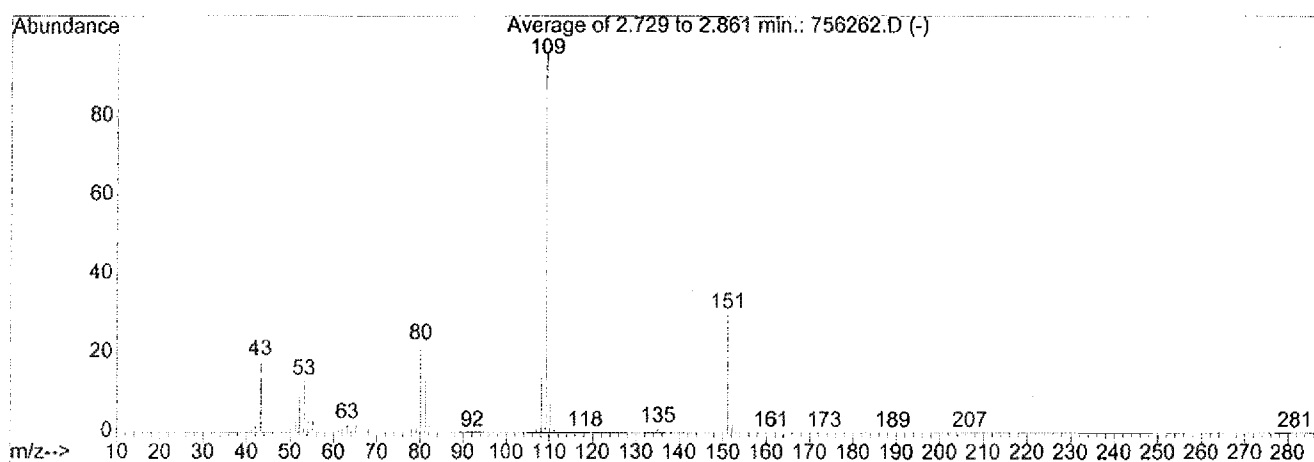
```

File Name       : F:\Q4-2010\SYSTEM4\11_19_10\756262.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010   2:38
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 62
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\PMW_TOX2.L   Minimum Quality: 90
                  C:\DATABASE\NIST98.L     Minimum Quality:  0
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.77	C:\DATABASE\NIST98.L		
		Acetaminophen	000103-90-2	95
		Acetaminophen	000103-90-2	91
		Acetamide, N-(2-hydroxyphenyl)-	000614-80-2	86



# Area Percent / Library Search Report

**Information from Data File:**

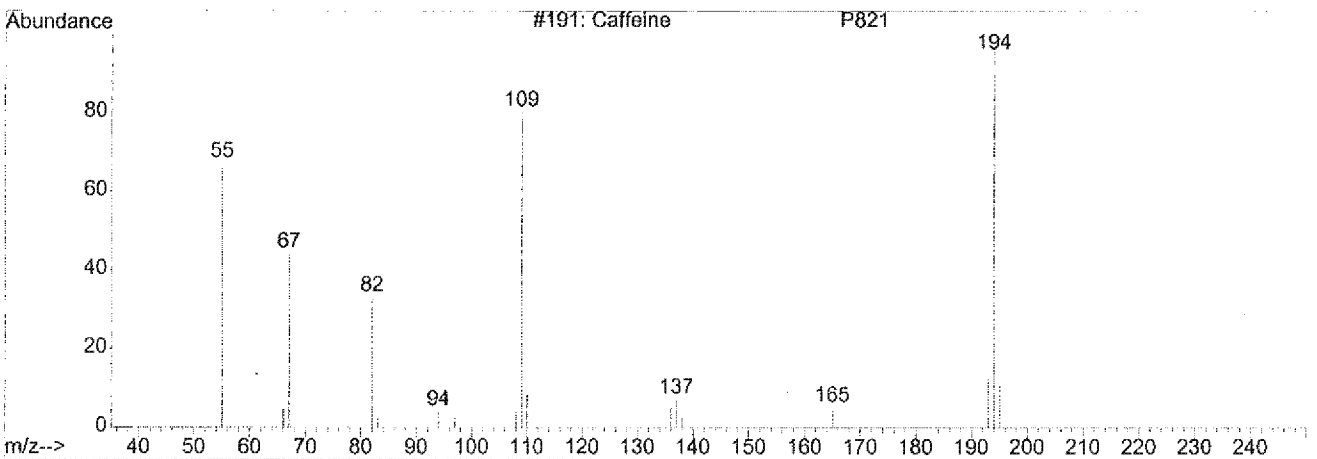
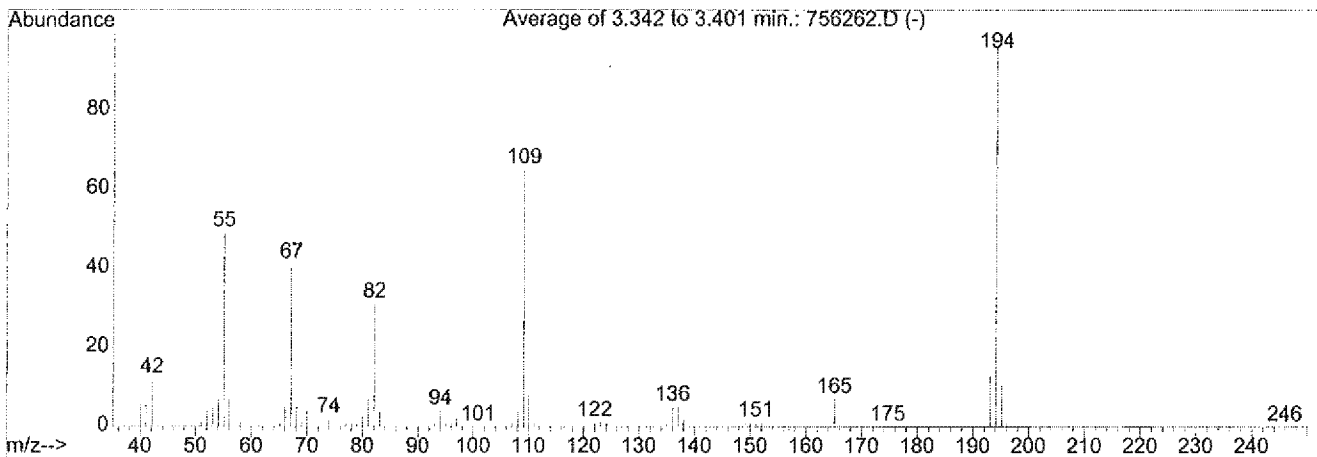
```

File Name       : F:\Q4-2010\SYSTEM4\11_19_10\756262.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010   2:38
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 62
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\PMW_TOX2.L   Minimum Quality: 90
                  C:\DATABASE\NIST98.L     Minimum Quality:  0
  
```

PK#	RT	Library/ID	CAS#	Qual
2	3.36	C:\DATABASE\PMW_TOX2.L		
		Caffeine	000058-08-2	98
		Endogenous biomolecule 2AC	000000-00-0	9
		Dichlorvos	000062-73-7	9



# Area Percent / Library Search Report

**Information from Data File:**

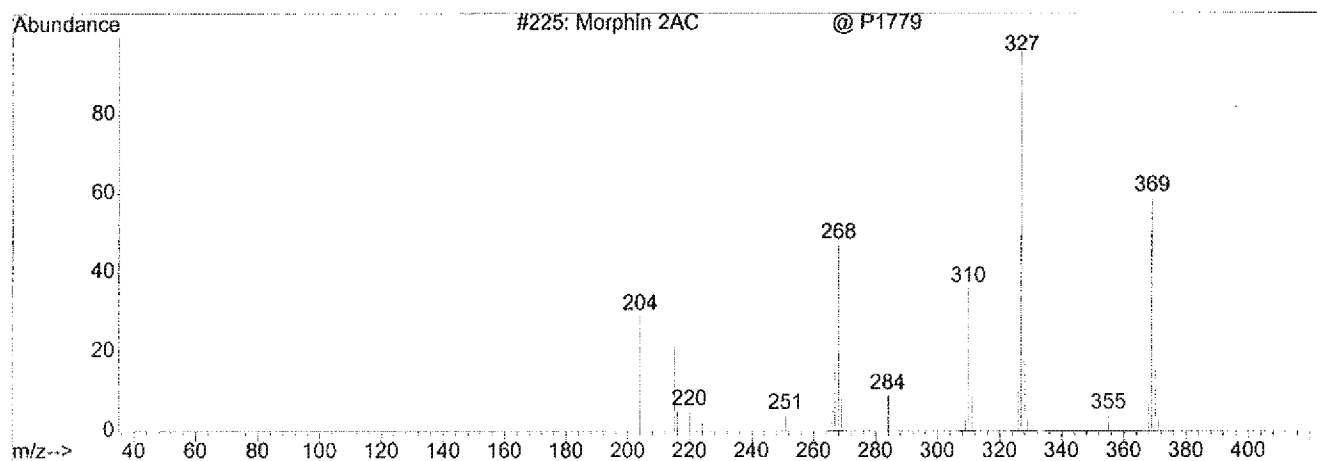
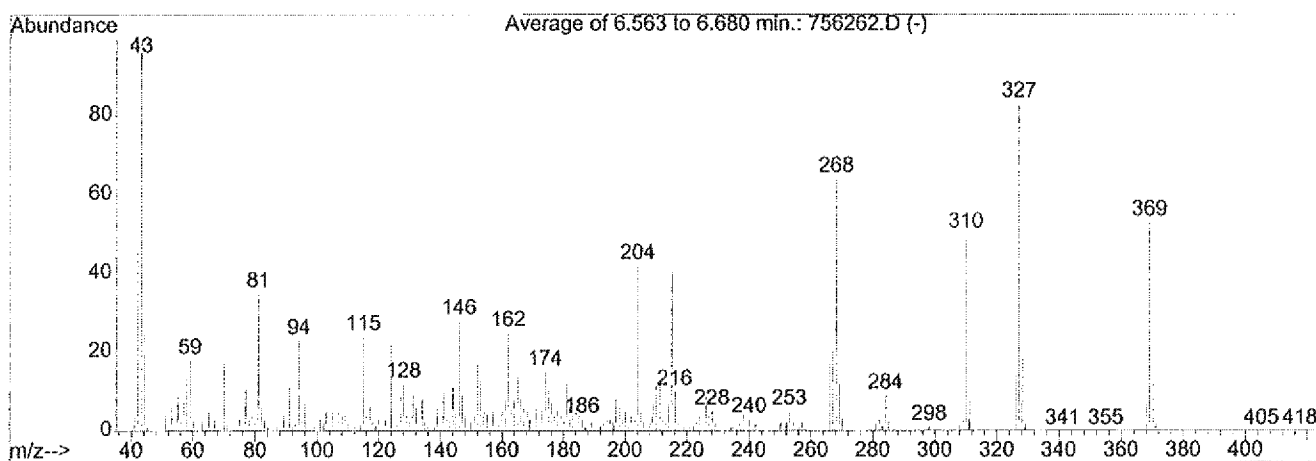
```

File Name       : F:\Q4-2010\SYSTEM4\11_19_10\756262.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010   2:38
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 62
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L        Minimum Quality:  0
  
```

PK#	RT	Library/ID	CAS#	Qual
3	6.60	C:\DATABASE\PMW_TOX2.L		
		Morphin 2AC	@ 000561-27-3	92
		Heroin-M (6-acetyl-morphine)	059833-14-6	90
		Naloxone AC	000000-00-0	43



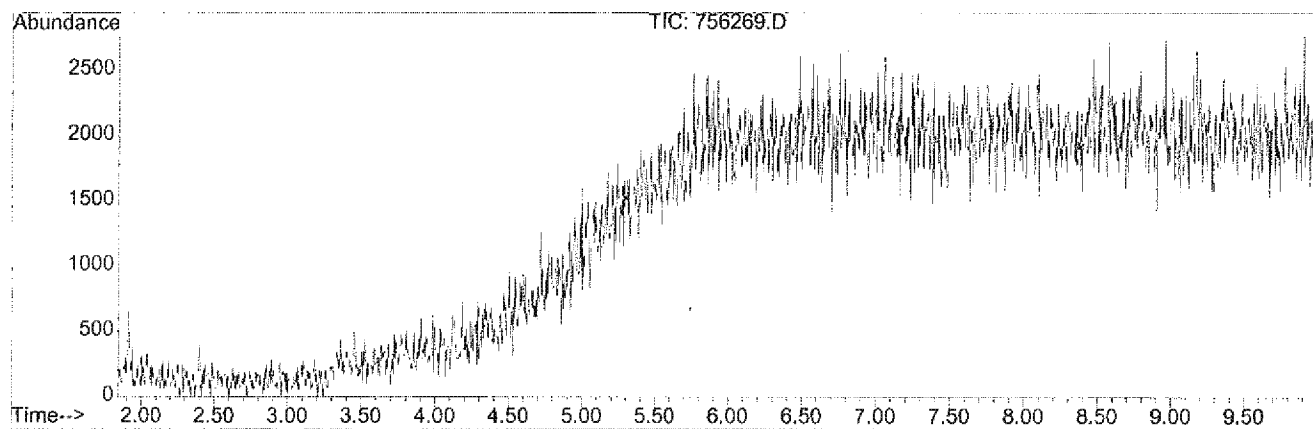
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756269.D  
Operator : ASD/KAC  
Date Acquired : 20 Nov 2010 4:14  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

---

\*\*\*NO INTEGRATED PEAKS\*\*\*

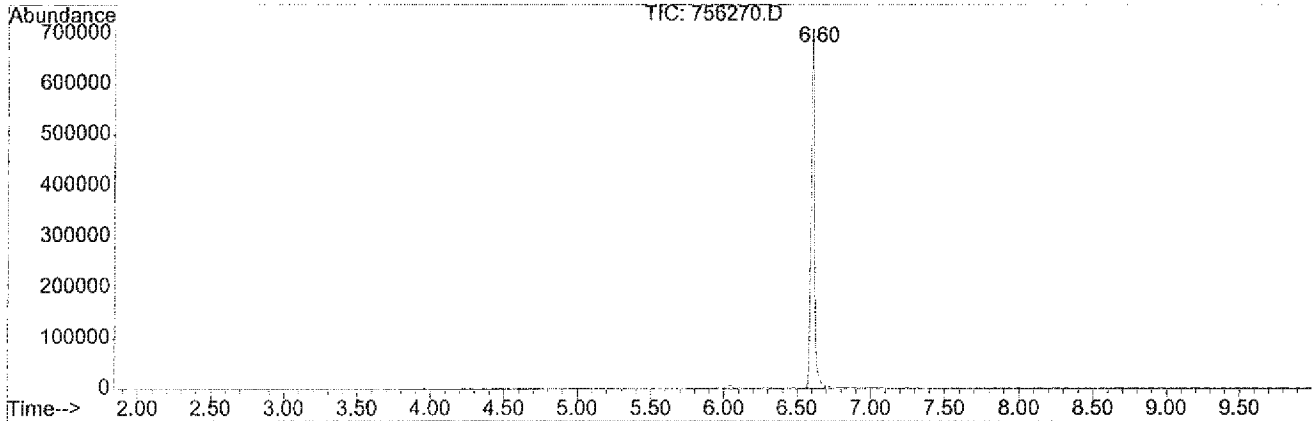
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11\_19\_10\756270.D  
Operator : ASD/KAC  
Date Acquired : 20 Nov 2010 4:27  
Sample Name : HEROIN STD  
Submitted by : ASD  
Vial Number : 70  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
6.603	1158495	100.00	100.00

---

# Area Percent / Library Search Report

**Information from Data File:**

```

File Name       : F:\Q4-2010\SYSTEM4\11_19_10\756270.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010   4:27
Sample Name     : HEROIN STD
Submitted by    : ASD
Vial Number     : 70
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L        Minimum Quality:  0
  
```

PK#	RT	Library/ID	CAS#	Qual
1	6.60	C:\DATABASE\PMW_TOX2.L		
		Morphin 2AC	@ 000561-27-3	93
		Heroin-M (6-acetyl-morphine)	059833-14-6	87
		Hydromorphone enol 2AC	@ 000000-00-0	38

